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Customer No.: 31561 Docket No.: 11121-US-PA

Application No.: 10/709,637

**AMENDMENT** 

Please amend the application as indicated hereafter.

In the Claims:

1. (currently amended) An active device array structure for rapidly twisting the

alignment of liquid crystal molecules from a splay state to a bend state, the active device

array structure comprising:

a base plate;

a plurality of gate lines disposed over the base plate;

a plurality of data lines disposed over the base plate, wherein a pixel area is

formed between any two adjacent gate lines and any two adjacent data lines;

a plurality of active devices disposed over the base plate, wherein each active

device is formed in an intersection region between the gate line and the data line and

electrically connected to corresponding gate line and data line;

a plurality of storage capacitors disposed over the base plate, wherein each storage

capacitor has an upper electrode having at least a first aperture which is located

underneath a pixel electrode near an edge of the pixel electrode, and the direction of the

electric field adjacent to the first aperture being at a predetermined angle to an alignment

direction of the liquid crystal molecules, the liquid crystal layer possessing a transition

from a splay state to a bend state while operating; and

a plurality of pixel electrodes disposed over the pixel area, wherein each the pixel

electrodes is respectively electrically connected to the corresponding active device and

the corresponding upper electrode.

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2. (original) The active device array structure of claim 1, wherein the gate lines

are formed in parallel over the base plate, the data lines are formed in parallel over the

base plate, and the gate lines are perpendicular to the date lines.

3. (original) The active device array structure of claim 1, wherein the active

devices comprise thin film transistors.

4. (original) The active device array structure of claim 1, wherein the pixel

electrodes comprise transparent electrodes.

5. (original) The active device array structure of claim 1, wherein the pixel

electrodes comprise reflective electrodes.

6. (original) The active device array structure of claim 1, wherein the upper

electrode is disposed over a portion of the gate line occupied area to form a storage

capacitor.

7. (original) The active device array structure of claim 1, further comprises a

plurality of common lines formed between the gate lines, and the upper electrode is

disposed over a portion of the common line occupied area to form a storage capacitor.

8. (original) The active device array structure of claim 1, wherein each of pixel

electrodes further comprises at least a second aperture when the first aperture is located

underneath the pixel electrode, and the second aperture is formed above the first aperture.